	Application No.	Applicant(s)
Notice of Allowability	09/839,254	HILLIARD, DONALD BENNETT
	Examiner	Art Unit
	Leith A Al-Nazer	2828
The MAILING DATE of this communication a All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOL- NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATEN of the Office or upon petition by the applicant. See 37 CFR 1.	S IS (OR REMAINS) CLOSED (-85) or other appropriate comm T RIGHTS. This application is	n this application. If not included unication will be mailed in due course. THIS
1. $oxed{oxed}$ This communication is responsive to ${\it \underline{amendment filed}}$	on 28 May 2004.	
2. 🛚 The allowed claim(s) is/are <u>22-25,27-34 and 36-45</u> .		
3. $igotimes$ The drawings filed on <u>20 April 2001</u> are accepted by th	e Examiner.	
 4. ☐ Acknowledgment is made of a claim for foreign priorit a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents h 		or (f).
2. Certified copies of the priority documents h		on No
3. Copies of the certified copies of the priority	• •	
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DAT noted below. Failure to timely comply will result in ABANDC THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	TE" of this communication to fil DNMENT of this application.	e a reply complying with the requirements
 A SUBSTITUTE OATH OR DECLARATION must be su INFORMAL PATENT APPLICATION (PTO-152) which 		
6. CORRECTED DRAWINGS (as "replacement sheets")	must be submitted.	
(a) ☐ including changes required by the Notice of Drafts		w (PTO-948) attached
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date	·	
(b) ☐ including changes required by the attached Examir Paper No./Mail Date	ner's Amendment / Comment o	r in the Office action of
Identifying indicia such as the application number (see 37 CF each sheet. Replacement sheet(s) should be labeled as such	R 1.84(c)) should be written on t in the header according to 37 C	he drawings in the front (not the back) of FR 1.121(d).
 DEPOSIT OF and/or INFORMATION about the deattached Examiner's comment regarding REQUIREME 	PPOSIT OF BIOLOGICAL MAT NT FOR THE DEPOSIT OF BI	ERIAL must be submitted. Note the OLOGICAL MATERIAL.
Attach was net(s) :		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. Notice of Ir	formal Patent Application (PTO-152)
 Notice of Draftperson's Patent Drawing Review (PTO-94 	8) 6. 🔲 Interview S	ummary (PTO-413),
Information Disclosure Statements (PTO-1449 or PTO/S Paper No./Mail Date	Paper No. B/08), 7. ☐ Examiner's	/Mail Date Amendment/Comment
 Examiner's Comment Regarding Requirement for Deposed of Biological Material 	<u> </u>	Statement of Reasons for Allowance
Don Wor Supervisory Pater	9. Other	
U.S. Patent and Trademark Office PTOL-37 (Rev. 1-04)	Notice of Allowability	Part of Paper No./Mail Date 060420

DETAILED ACTION

Allowable Subject Matter

- 1. Claims 22-25, 27-34, and 36-45 are allowed.
- 2. The following is an examiner's statement of reasons for allowance:

The prior art of record does not teach or suggest some of the limitations found in independent claims 22, 44, and 45. With respect to independent claims 22 and 44, Baer fails to teach or suggest the reflective coating on the surface of revolution having at least one hundred thin film dielectric layers, the layers having alternating refractive indices, the alternating refractive indices differing by less than 0.1, and the coating providing greatest reflectance to the radiation at a preferred angle-of-incidence. With respect to claim 45, Baer fails to teach or suggest a multilayer dielectric reflector deposited on the surface of revolution, the reflector defining an optical cavity, and the reflector having an angle-dependence so that the lasing cavity modes are substantially limited to radiation that intersects the coupling structure. Therefore, independent claims 22, 44, and 45, as well as all dependent claims, are allowable over the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Communication Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leith A Al-Nazer whose telephone number is 571-272-1938.

The examiner can normally be reached on Monday-Friday 7:30am-4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on 571-272-1834. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Den Wong
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Supervisory Patent Examiner
Technology Center 2800